

1 Claims

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3 1. A rotary bending tool, comprising:

4 a saddle comprised of an elongated member formed with a partially cylindrical
5 open recess extending lengthwise along said saddle;

6 a rocker comprised of an elongated member having a partially cylindrical outer
7 surface fit to said partially cylindrical portion of said saddle recess, said saddle recess to allow
8 relative rotation therein, said saddle partially encircling said rocker to capture the same;

9 said rocker having a V-shaped recess extending lengthwise along said rocker, said
10 V-shaped recess positioned to face away from said saddle recess with said cylindrical saddle
11 recess and said partially cylindrical surface of said rocker interfit together;

12 a series of pins each received in respective one of a series of holes in said saddle
13 and entering a respective one of a series of pockets formed into said cylindrical surface of said
14 rocker;

15 a spring associated with each pin holding said pin in said respective pocket of said
16 rocker;

17 a series of oil impregnated graphite plugs mounted into a surface defining said
18 saddle recess and engaging said rocker cylindrical surface, said series distributed along the length
19 of said saddle recess, lubricating said rocker cylindrical surfaces.

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21 2. The rotary bending tool according to claim 1 wherein said series of
22 graphite plugs are arranged in two side by side rows extending along said saddle recess.

1 3. The rotary bending tool according to claim 1 wherein each of said graphite
2 plugs have an arcuately contoured end in engagement and conforming with said rocker
3 cylindrical surface.

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5 4. A method of manufacturing the rotary bending tool of claim 1 including
6 the steps of machining said rocker to form said V recess and rocker cylindrical surfaces,
7 subsequently heat treating said rocker to harden said rocker, and thereafter reverse bending said
8 rocker to eliminate any warpage thereof caused by said heat treating.